IN THE CLAIMS

The following listing of claims contains all claims in the application, and replaces any previous listings.

1. (currently amended) An improved feeder apparatus, comprising:

a storage hopper having a lower opening, the storage hopper adapted to hold a volume of feed pellets;

a spinner plate mounted below the storage hopper lower opening, wherein the spinner plate is mounted on a vertical shaft, wherein feed pellets are allowed to drop below the spinner plate when the spinner plate is rotating, and wherein feed pellets are blocked from dropping below the spinner plate when the spinner plate is not rotating;

a first motor coupled to the spinner plate shaft, wherein the first motor, when energized, causes the spinner shaft and spinner plate to rotate about an axis defined by the shaft;

a paddle wheel mounted on a horizontal shaft, wherein the paddle wheel is adapted to throw feed pellets away from the feeder apparatus when rotated about the paddle wheel shaft;

a second motor connected to the paddle wheel shaft, wherein the second motor, when energized, causes the paddle wheel shaft and paddle wheel to rotate about an axis

defined by the paddle wheel shaft, wherein the paddle wheel rotates at a relatively high rpm relative to the spinner plate; and

a funnel system having a first opening below the spinner plate for catching feed pellets, and having a second opening allowing feed pellets to drop into the paddle wheel; and

a controller connected to the first and second motors for selectively energizing the first and second motors.

2. (original) The improved feeder apparatus of Claim 1, wherein the first motor operates at a relatively low rate of speed relative to the second motor.

3. (original) The improved feeder apparatus of Claim 1, wherein the spinner plate comprises a substantially square planar plate having tabs along each edge folded at an angle compared to the plane of the plate, wherein two of the tabs, located on opposite edges, are folded up, while the remaining two edges are folded down.

4. (original) The improved feeder apparatus of Claim 1, wherein the controller operates to energize and de-energize the first and second motors to define a feeding cycle, and wherein the second motor is energized before the first motor to begin a feeding cycle, and the second motor is de-energized after the first motor to end a feeding cycle.

The improved feeder apparatus of Claim 4, wherein the second motor is 5. (original) energized approximately 4 seconds before the first motor, and wherein the first motor is de-energized approximately 4 seconds before the second motor.

6. (original) The improved feeder apparatus of Claim 1, wherein the controller defines a selected number of feeding cycles during each day, with each feeding cycle having a selected duration during which feed is dispersed.

The improved feeder apparatus of Claim 6, wherein the controller operates 7. (original) to energize and de-energize the first and second motors during each feeding cycle, and wherein the second motor is energized before the first motor to begin each feeding cycle, and the second motor is de-energized after the first motor to end each feeding cycle.

8. (original) The improved feeder apparatus of Claim 7, wherein the second motor is energized approximately 4 seconds before the first motor, and wherein the second motor is de-energized approximately 4 seconds after the first motor.

9. (original) The improved feeder apparatus of Claim 7, wherein both the first and second motors remain energized for the duration of each feeding cycle.

10. (original) A method of dispersing feed pellets, comprising the steps of:
providing a plurality of feed pellets in a hopper;
rotating a spinner plate, located below an opening in a bottom of the hopper, to
cause feed pellets to fall from the hopper;
diverting the fallen feed pellets to a paddle wheel; and
rotating the paddle wheel at a high rate of speed sufficient to disperse the pellets.
11. (original) The method of Claim 10, wherein the spinner plate and paddle wheel are
rotated for a selected period of time to define a feeding cycle.
Totaled for a selected period of time to define a feeding cycle.
12. (original) The method of Claim 11, wherein, for a feeding cycle, the spinner plate
begins rotation after the paddle wheel, and wherein the paddle ceases rotation after the
spinner plate.
13. (original) The method of Claim 12, wherein the spinner plate begins rotation
approximately four seconds after the paddle wheel, and wherein the paddle wheel ceases
rotation approximately four seconds after the spinner plate.

14. (new) The improved feeder apparatus of Claim 1, wherein the paddle wheel shaft is substantially horizontal, whereby the paddle wheel rotates in a substantially vertical plane.

- 15 (new) The method of Claim 10, wherein the paddle wheel operates in a substantially vertical plane.
- 16. (new) The method of Claim 10, wherein the spinner plate operates by rotating in a substantially horizontal plane.